

Special Issue

Polymer Micro- and Nanocapsules: Current Status, Challenges and Opportunities

Message from the Guest Editors

Capsule-based self-healing systems, incorporating micro- or nano-sized capsules, have attracted considerable attention in the research society due to their minimal reduction in mechanical properties after the incorporation of self-healing, the potential for mass production and high healing efficiency values. Numerous attempts have been presented every year, focusing on the development of different capsule-based self-healing systems, indicating the increased interest of the research community. The scope of this Special Issue is to present and discuss the recent advancements, healing fundamentals and mechanisms which utilise micro- or nano-sized capsules, with emphasis given to developments in encapsulation methods and novel functional materials related to capsule-based self-healing polymers. With great pleasure, we would like to invite you to submit a manuscript for publication in this Special Issue, full papers, communications and reviews all being welcome. In addition, the list of keywords is not exhaustive, but it may help prepare your submission. If you would like to go beyond it, please submit a paper whose topic is not mentioned in this list.

Guest Editors

Dr. Dimitrios Bekas

Department of Materials Science and Engineering, University of Ioannina, Ioannina, Greece

Prof. Dr. Sotirios A. Grammatikos

Department of Manufacturing and Civil Engineering, Faculty of Engineering, Norwegian University of Science and Technology, 7491 Gjøvik, Norway

Deadline for manuscript submissions

closed (28 February 2023)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/102388

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)





Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)



About the Journal

Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)